

**REMARKS**

Claims 14-25 are all the claims pending in the application.

The Applicants cancel claim 14 without prejudice.

Claims 15-19 have been rewritten in independent form. The dependency of claims 20-25 have also been changed accordingly. It should be noted that claims 15-19 do not contain any more limitations than were present originally. Therefore, these claim amendments do not narrow the scope of the claims.

Claims 15-25 have been rejected under 35 U.S.C. § 112, second paragraph, as being indefinite.

Claims 15, 17-20, 22 and 24 have been rejected under 35 U.S.C. § 102(e) as being anticipated by Parulski et al. (5,818,406).

Claims 15, 17-20, 22 and 24 have been rejected under 35 U.S.C. § 102(e) as being anticipated by Ishimoto et al. (5,594,564).

Claims 15, 17-20, 22 and 24 have been rejected under 35 U.S.C. § 102(e) as being anticipated by Aoki et al. (4,654,117).

Claim 25 has been rejected under 35 U.S.C. § 103(a) as being unpatentable over Parulski et al. (5,818,406).

Claims 16 and 25 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Ishimoto et al. (5,594,564).

Claims 16 and 25 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over Aoki et al. (4,654,117).

The Applicant traverses these rejections and requests reconsideration.

The Examiner objects to the title as being non-descriptive of the claimed invention. The Applicants respectfully replace the current title with a new one shown above.

In rejecting the claims under 35 U.S.C. § 112, the Examiner notes that it is unclear whether the pixel is a triad or a single pixel electrode. The Examiner appears to assume that the present Disclosure used the term pixel to denote a single electrode. The Applicant confirms this assumption, and requests the Examiner to withdraw the section 112 rejection.

The Applicant thanks the Examiner for the detailed analysis of the individual claims and comparisons against cited prior art references. While the Applicants have considered these detailed analyses, only issues generally relevant to the patentability of all the claims are discussed herein.

Three references, Parulski, Ishimoto, and Aoki, have been cited in support of the rejections. In the detailed analysis, the Examiner asserts that each of these three references disclose pixels with different width to height ratios. But, the Examiner is completely silent on an important aspect of the present invention, the **density** differences for the picture elements in the horizontal and vertical directions. This is because, while these references teach different **dimensions** for the pixel in the horizontal and vertical directions, there is no discussion of different **densities** for the picture elements in the horizontal and vertical direction. The

**dimension** of an individual pixel is completely different from the **density** of the picture element.

Claims 15-19 require the **density** of the picture elements to be different in the horizontal and vertical directions. Importantly, it should be noted that in these claims (for example, claim 15) both **dimension** and the **density** are separately recited as part of separate limitations. This clearly shows that the Applicant intended the meaning of the term **dimension** to be completely different from the meaning for **density**. The cited references individually do not anticipate claims 15-19, because they do not disclose the density of the picture elements to be different in the horizontal direction compared to the vertical direction.

Further, the recited structure in claims 16-19 for reading/converting the image signal so that a specific density differential is obtained is not disclosed (or suggested) by any of the references.

Claims 20-25 depend on claim 16 and are patentable for the same reasons.

In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

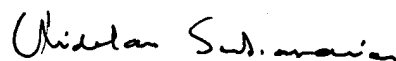
Applicant hereby petitions for any extension of time which may be required

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to maintain the pendency of this case, and any required fee, except for the Issue Fee, for such extension is to be charged to Deposit Account No. 19-4880.

Respectfully submitted,



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Date: February 23, 2001

**APPENDIX**  
**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE TITLE:**

The title is changed as follows:

Image Display System with Different Picture Element Densities in the  
Horizontal and Vertical Directions

**IN THE CLAIMS:**

**Claim 14 is canceled.**

**The claims are amended as follows:**

15. (Amended) [An image display system as defined in Claim 14] An  
image display system in which an image signal is reproduced as a visual image on a ✓  
pixelized screen having a number of picture elements arranged in horizontal and  
vertical directions, wherein the improvement comprises that  
the density of the picture elements in the horizontal direction is higher than  
that in the vertical direction

in which the dimension in the vertical direction of each picture element is  
larger than that in the horizontal direction.

16. (Amended) [An image display system as defined in Claim 14] An  
image display system in which an image signal is reproduced as a visual image on a  
pixelized screen having a number of picture elements arranged in horizontal and  
vertical directions, wherein the improvement comprises that

the density of the picture elements in the horizontal direction is higher than that in the vertical direction

in which said image signal is such on which picture element density conversion processing for causing the density of the picture elements in the horizontal direction to be higher than that in the vertical direction has been carried out.

17. (Amended) [An image display system as defined in Claim 14] An image display system in which an image signal is reproduced as a visual image on a pixelized screen having a number of picture elements arranged in horizontal and vertical directions, wherein the improvement comprises that

the density of the picture elements in the horizontal direction is higher than that in the vertical direction

in which said image signal is such read out in such a manner that the density of the picture elements in the horizontal direction becomes higher than that in the vertical direction.

18. (Amended) [An image display system as defined in Claim 14] An image display system in which an image signal is reproduced as a visual image on a pixelized screen having a number of picture elements arranged in horizontal and vertical directions, wherein the improvement comprises that

the density of the picture elements in the horizontal direction is higher than that in the vertical direction

in which said image signal is such read out on the basis of picture elements whose dimensions are larger in the vertical direction than in the horizontal direction.

19. (Amended) [An image display system as defined in Claim 14] An image display system in which an image signal is reproduced as a visual image on a pixelized screen having a number of picture elements arranged in horizontal and vertical directions, wherein the improvement comprises that

the density of the picture elements in the horizontal direction is higher than that in the vertical direction

in which said image signal is such read out on the basis of picture elements whose dimensions are larger in the vertical direction than in the horizontal direction and at the same time whose density is higher in the horizontal direction than in the vertical direction.

20. (Amended) An image display system as defined in Claim [14] 16 in which the density of the picture elements in the horizontal direction is at least 1.2 times as high as that in the vertical direction.

22. (Amended) An image display system as defined in Claim [14] 16 in which the dimension of each picture element in the vertical direction is at least 1.2 times as large as that in the horizontal direction.

23. (Amended) An image display system as defined in Claim [22] 16 in which the dimension of each picture element in the vertical direction is at least three times as large as that in the horizontal direction.

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24. (Amended) An image display system as defined in Claim [14] 16 in which said pixelized screen comprises a liquid crystal panel.

25. (Amended) An image display system as defined in Claim [14] 16 in which a maximum brightness of the picture elements is higher than 800nit.